

St. Mary's County Metropolitan Commission
 Capital Improvements Budget
 FY 2016 - 2021 Water

Project Name	Status	Project ID	Prior Approved	FY16 As Amended	Budget Amendment 8-27-15	FY16 As Amended	FY 2017	FY 2018	FY 2019	FY 2020	FY2021	TOTAL	Out Years (FY2022 & Beyond)
Water Lines													
MD 4 - Oak Dr to Patuxent Blvd Water Line Relocation	4	8143WM	\$360,477									\$360,477	
Patuxent Park Water Main Replacement Phase 3	2	8122WR	\$1,756,000		\$628,360	\$628,360						\$2,384,360	
MD 235 to Airport Road Water Main Connector	2	8125WM	\$478,250									\$478,250	
Piney Point Water System	2	5111WR	\$255,000	\$2,235,000		\$2,235,000						\$2,490,000	
FDR Blvd WM Ph. 1B (1st Colony/Old Rolling Rd)	2	8151WM	\$1,509,300									\$1,509,300	
Patuxent Park Water Main Replacement Phase 4				\$1,881,500		\$1,881,500						\$1,881,500	
Hollywood Water Systems Connector							\$1,107,000					\$1,107,000	
Town Creek Water System Phase 1 & 2	2	8081WR	\$595,000				\$2,329,500		\$2,639,500			\$5,564,000	
St Clements Shores Water System Replacement	2	2101WR	\$980,000	\$4,518,000		\$4,518,000		\$3,508,500		\$3,508,500		\$12,515,000	
Wildewood Pkwy to MD 4 WM Connector								\$442,350				\$442,350	
Shangri-La Dr. & S. Essex Dr. Water Main Replacement							\$185,000	\$2,305,750				\$2,490,750	
Airport View Drive to Wildewood WM Connector											\$2,165,300	\$2,165,300	
Water Main Connection Crossing MD 5 - Charlotte Hall									\$575,550			\$575,550	
Southampton Water System Rehabilitation									\$267,000	\$2,663,000		\$2,930,000	
Hollywood System Phase 2 Replacement										\$823,500		\$823,500	
Sheehan / St. George's Park Water System	2	5121WM	\$240,000									\$240,000	
Esperanza Farms Water System (Repair)	2	8142WR	\$150,000									\$150,000	
Esperanza Farms Water System (Replacement)													\$2,500,000
Belvoir Road Water Main Replacement													\$1,247,400
Coral Dr Water Main Connector													\$250,000
MD 235 WM, Cedar Pt Rd. to Rasmussen Rd.													\$1,808,000
MD 235 WM, Thames Ave. to Hermanville Rd. Greenbrier													\$5,534,000
Piney Point Water Systems Connector													\$2,717,000
MD712 Forest Park Road Water Main Extension													\$1,821,000
Water Lines Subtotal =			\$6,324,027	\$8,634,500	\$628,360	\$9,262,860	\$3,621,500	\$6,256,600	\$3,482,050	\$6,995,000	\$2,165,300	\$38,107,337	\$15,877,400

Status:

- 1 Planning Phase
- 2 Design Phase
- 3 Contract Phase
- 4 Construction Phase
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Wells													
Hollywood Well at Broad Creek	2	8092WL	\$1,174,500									\$1,174,500	ew Loan & Supply & S
Villages of Leonardtown Well								\$270,000				\$270,000	
Hickory Hills Well	2	8081WL	\$997,000									\$997,000	DHC
Charlotte Hall Well	2	0091WL	\$809,500									\$809,500	
Bay Ridge Well	2	8091WL	\$175,160				\$2,062,800					\$2,237,960	
Additional Production/Replacement Well													\$1,000,000
Well Subtotal =			\$3,156,160	\$0	\$0	\$0	\$2,062,800	\$270,000	\$0	\$0	\$0	\$5,488,960	\$1,000,000

Water Storage Tanks (WST)													
Charlotte Hall WST	2	0091WT	\$3,107,800									\$3,107,800	
Hollywood/Broad Creek WST	2	8092WT	\$3,486,500									\$3,486,500	
Hickory Hills WST	2	8081WT	\$6,297,977									\$6,297,977	DHC
Great Mills Standpipe Extension	1	8151WT	\$120,000				\$1,270,000					\$1,390,000	
St. Clements Shores WST								\$225,000	\$1,235,000			\$1,460,000	
Tank Inspection and Painting	4	WO1517	\$1,247,400				\$623,700	\$623,700	\$623,700	\$623,700		\$3,742,200	
Greenbrier WST				\$120,000		\$120,000	\$1,365,000					\$1,485,000	
Bay Ridge WST (Concept Design)	2	8082WT	\$126,000									\$126,000	DHC
Bay Ridge WST (Construction)												\$0	\$5,639,773
Piney Point (Landings) WST												\$0	\$1,512,000
Water Storage Tanks (WST) Subtotal =			\$14,385,677	\$120,000	\$0	\$120,000	\$3,258,700	\$848,700	\$1,858,700	\$623,700	\$0	\$21,095,477	\$7,151,773

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Miscellaneous													
Radio Read Water Meters Project Phases 1 & 2	4	WO1112	\$8,300,000									\$8,300,000	
Exterior Petty Building Upgrades	2	8131BD	\$400,000									\$400,000	
Oversize Meter Project Phase 2	2	8121MW	\$243,000									\$243,000	
King Kennedy Well & Ground Storage Tank Improvements	2	3-1-W	\$1,732,500									\$1,732,500	N
Asset Management Software Upgrade	4	SW1201	\$257,500				\$40,000					\$297,500	
Oversize Meter Project Phase 3	2	8151MW	\$147,000									\$147,000	
Right of Way Clearing	4	WM1526	\$54,000	\$54,000		\$54,000	\$54,000					\$162,000	
King Kennedy Water Line Replacement								\$1,998,000				\$1,998,000	N
Facilities Plan Update								\$125,000				\$125,000	
Water Station Upgrades - Piney Point				\$250,000		\$250,000						\$250,000	N
Unidentified Water System Upgrade													\$5,000,000
Miscellaneous Subtotal =			\$11,134,000	\$304,000	\$0	\$304,000	\$94,000	\$2,123,000	\$0	\$0	\$0	\$13,655,000	\$5,000,000

Totals													
Water Lines			\$6,324,027	\$8,634,500	\$628,360	\$9,262,860	\$3,621,500	\$6,256,600	\$3,482,050	\$6,995,000	\$2,165,300	\$38,107,337	\$15,877,400
Wells			\$3,156,160	\$0	\$0	\$0	\$2,062,800	\$270,000	\$0	\$0	\$0	\$5,488,960	\$1,000,000
Water Storage Tanks (WST)			\$14,385,677	\$120,000	\$0	\$120,000	\$3,258,700	\$848,700	\$1,858,700	\$623,700	\$0	\$21,095,477	\$7,151,773
Miscellaneous			\$11,134,000	\$304,000	\$0	\$304,000	\$94,000	\$2,123,000	\$0	\$0	\$0	\$13,655,000	\$5,000,000
Subtotal			\$34,999,864	\$9,058,500	\$628,360	\$9,686,860	\$9,037,000	\$9,498,300	\$5,340,750	\$7,618,700	\$2,165,300	\$78,346,774	\$29,029,173
Contingency		7.5%	\$2,625,000	\$679,000	(\$628,360)	\$50,640	\$678,000	\$712,000	\$401,000	\$571,000	\$162,000	\$5,199,640	\$2,177,000
Total=			\$37,624,864	\$9,737,500	\$0	\$9,737,500	\$9,715,000	\$10,210,300	\$5,741,750	\$8,189,700	\$2,327,300	\$83,546,414	\$31,206,173

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St. Mary's County Metropolitan Commission
Capital Improvements Budget
FY 2016 - 2021 Sewer

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Replacement													
Shangri-La Dr. and South Essex Dr. Sewer Rehab	5	8111SR	\$541,000									\$541,000	
Interceptor Rehabilitation, NAS	5	8122SR	\$3,401,000									\$3,401,000	
Patuxent Park Sewer Replacement Phase 3	2	8124SR	\$2,820,000	-\$628,360		-\$628,360						\$2,191,640	
Lynn Dr. Force Main Upgrade & Replacement	4	8121FM	\$642,030									\$642,030	
Interceptor Rehabilitation, Shangri-La Dr. to Colony Square	2	8131SR	\$1,147,500	\$112,500		\$112,500						\$1,260,000	
Interceptor Rehabilitation, Pine Hill Run Rd.	2	8152SR	\$2,492,900									\$2,492,900	
Little Flower School Lateral Replacement	2	8151SR	\$473,985									\$473,985	
Patuxent Park Sewer Replacement Phase 4	1	8141SR		\$2,073,625		\$2,073,625						\$2,073,625	
St. Mary's Sq. to Sheriff Miedzinski Way Gravity Sewer Upgrade							\$169,000					\$169,000	
Forest Run to St. Mary's Sq. West Force Main Upgrade								\$2,100,000				\$2,100,000	
St George's Park Sewer Sys Imp & Sheehan WWPS Ph. 1	2	5-9-S	\$540,500									\$540,500	
Glenn Forrest to NAS Interceptor Rehabilitation									\$7,357,500			\$7,357,500	
MD 235 Wildewood Interceptor Expansion											\$334,530	\$334,530	
Bay Interceptor Relining	5	8121SR	\$666,000									\$666,000	
Manhole Rehabilitation	4	SM1505	\$95,000	\$95,000		\$95,000	\$95,000	\$95,000	\$95,000	\$95,000		\$475,000	
I&I Sewer Replacement, Rehabilitation & Upgrade	4	SM1506	\$275,000	\$340,000		\$340,000	\$220,000	\$220,000	\$220,000	\$220,000		\$1,495,000	
Piney Point Road Sewer Line Replacement	3	5151SR	\$288,420									\$288,420	
MD5 Little Flower School to Great Mills Gravity Sewer Upgrade													\$999,000
Gravity Sewer Upgrade Westbury Blvd													\$931,500
Replacement Subtotal =			\$13,383,335	\$1,992,765	\$0	\$1,992,765	\$484,000	\$315,000	\$2,415,000	\$7,577,500	\$334,530	\$26,502,130	\$1,930,500

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Pump Stations													
Piney Point Landings WWPS	4	5141SS	\$170,500									\$170,500	
St. Clements Shores WWPS Replacement	4	SO1426	\$135,000									\$135,000	
Great Mills WWPS Upgrade	2	8081SS	\$6,733,200	\$370,856		\$370,856						\$7,104,056	
Lynn Drive WWPS	4	8122SS	\$1,821,300									\$1,821,300	
St. Mary's Square WWPS	3	8121SS	\$1,554,000									\$1,554,000	
Piney Point WWPS Upgrade	2	5081SR	\$6,468,600	\$178,350		\$178,350						\$6,646,950	
First Colony #2 WWPS	2	8141SS	\$205,000	\$1,325,000		\$1,325,000						\$1,530,000	
Glebe Run WWPS Replacement				\$155,250		\$155,250						\$155,250	
Forest Run WWPS	2	8131SS	\$350,000	\$300,000		\$300,000	\$8,700,000					\$9,350,000	
Wildewood #1 WWPS	1	8132SS	\$55,000	\$155,000		\$155,000	\$2,146,250					\$2,356,250	
Wildewood #2 WWPS							\$55,000	\$769,500				\$824,500	
Spring Valley WWPS				\$250,000		\$250,000						\$250,000	
Evergreen Park WWPS								\$170,500				\$170,500	
Moorings WWPS								\$337,500				\$337,500	
Esperanza Shopping Center WWPS									\$540,000			\$540,000	
Bradley Blvd. WWPS										\$337,500		\$337,500	
Greenbrier WWPS											\$337,500	\$337,500	
Wicomico Shores WWPS											\$337,500	\$337,500	
Pump Stations Subtotal =			\$17,492,600	\$2,734,456	\$0	\$2,734,456	\$10,901,250	\$1,277,500	\$540,000	\$337,500	\$675,000	\$33,958,306	\$0

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System Upgrades / Expansion													
MTWRF ENR Upgrade	4	8-38-S	\$39,125,000									\$39,125,000	
Exterior Petty Building Upgrades	2	8131BD	\$400,000									\$400,000	
Asset Management Software Upgrade	4	SW1201	\$260,000				\$120,000					\$380,000	
Macerators/Macerating Pumps for Stations	4	SM1510	\$236,898	\$120,000		\$120,000	\$120,000					\$476,898	
Leonardtown ENR & Upgrade Project	3	3151SF	\$2,092,372									\$2,092,372	
MTWRF Expansion (Capacity & Expansion Report and Concept Design)	2	8151SF	\$500,000				\$500,000					\$1,000,000	
Facilities Plan Update								\$125,000				\$125,000	
Right of Way Clearing	4	SM1525	\$54,000	\$54,000		\$54,000	\$54,000					\$162,000	
Grinder Pump Replacements	4	SM1509	\$840,375	\$840,375		\$840,375	\$840,375	\$840,375	\$840,375			\$4,201,875	
St. Clements Shores WWTP Expansion		2151SF			\$70,000	\$70,000						\$70,000	
MTWRF Expansion (Construction)													\$25,000,000
Airedale Road WWTF Nitrogen Removal Upgrade													\$675,000
SCS Plant & System Expansion													\$2,550,000
New Market/Charlotte Hall Sewer													\$5,400,000
Hollywood Town Center Sewer Project													\$3,808,350
Holly Gaf Sewer Force Main													\$6,820,200
Navy Re-Use													\$4,095,000
Unidentified Sewer System Upgrade													\$5,000,000
Systems Upgrades/Expansion Subtotal =			\$43,508,645	\$1,014,375	\$70,000	\$1,084,375	\$1,634,375	\$965,375	\$840,375	\$0	\$0	\$48,033,145	\$53,348,550

Totals													
Replacement			\$13,383,335	\$1,992,765	\$0	\$1,992,765	\$484,000	\$315,000	\$2,415,000	\$7,577,500	\$334,530	\$26,502,130	\$1,930,500
Pump Stations			\$17,492,600	\$2,734,456	\$0	\$2,734,456	\$10,901,250	\$1,277,500	\$540,000	\$337,500	\$675,000	\$33,958,306	\$0
Upgrades/Expansion			\$43,508,645	\$1,014,375	\$70,000	\$1,084,375	\$1,634,375	\$965,375	\$840,375	\$0	\$0	\$48,033,145	\$53,348,550
Subtotal			\$74,384,580	\$5,741,596	\$70,000	\$5,811,596	\$13,019,625	\$2,557,875	\$3,795,375	\$7,915,000	\$1,009,530	\$108,493,581	\$55,279,050
Contingencies			\$4,612,000	\$1,023,360	(\$70,000)	\$953,360	\$807,000	\$159,000	\$235,000	\$491,000	\$63,000	\$7,320,360	\$3,427,000
Total =			\$78,996,580	\$6,764,956	\$0	\$6,764,956	\$13,826,625	\$2,716,875	\$4,030,375	\$8,406,000	\$1,072,530	\$115,813,941	\$58,706,050

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CAPITAL IMPROVEMENT BUDGET AND PROGRAM FISCAL YEAR 2016

PROJECT TITLE	PROJ. NO.	PROJECT CLASSIFICATION
ST. Clements Shores WWTP Expansion	2151SF	Sewer

DESCRIPTION:

In an effort to determine the potential for the St. Clements Shores Waste Water Treatment Plant (WWTP) expansion, an engineering evaluation and report for the upgrade/expansion is budgeted. Currently St. Clements Shores WWTP is operating at approximately 90% hydraulic capacity and consistently meets the groundwater discharge permit BOD and TSS limits; however, nitrogen levels approach the limit of 13 mg/l during the cold winter months. There are approximately 29 EDUs which have allocated capacity to the WWTP, but are not connected. These properties with allocation could connect at any time which would increase the hydraulic capacity to the 100,000 gpd limit. To date the County Environmental Health Department has identified eight (8) properties with failing septic systems. The majority of these homes with failing systems are located in the Chesapeake Bay critical area. With the exception of one property located 2,000 ft. away, all failing systems are within 1,000 ft. from the current low pressure sanitary sewer distribution system which discharges to the WWTP. The first phase of the upgrade/expansion evaluation study will investigate the potential treatment and discharge impacts along with associated costs to connect these failing septic systems to the public sewer. In addition to the referenced existing allocated EDUs not connected and the failing systems, there are over 100 EDUs currently on a waiting list requesting connection to the St. Clements Shores WWTP. Possible concept designs for expansion along with their associated costs will be included in the budgeted engineering study. Both treatment and discharge methods that stay within MDE permit limits will be investigated.

PLANNING JUSTIFICATION:

County Environmental Health Department along with Land Use and Growth Management (LUGM) has expressed interest in providing additional sanitary sewer service in the vicinity of the St. Clements Shores WWTP. The Health Department has identified eight (8) properties in this area with failing septic systems. The majority of these homes with failing systems are located in the Chesapeake Bay critical area.

LOCATION:

3rd Election District, 2nd Sanitary District, St. Clements Shores.

APPROPRIATION PHASE	Prior Approval	FY16	Budget Amendment FY 2016	Five Year Capital Program					Total Project
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
ADMINISTRATION (5%)	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
PLANNING/DESIGN (10%)	\$0	\$0	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000
LAND ACQUISITION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONSTRUCTION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
INSPECTION (10%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CONTINGENCIES (10%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL COSTS	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$0	\$70,000

FUNDING SOURCE	Total Project	Prior Approval	Budget FY 2016	Five Year Capital Program					Balance to Complete
				FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
MDE/DHCD LOAN	\$0			\$0	\$0	\$0	\$0	\$0	
MDE LOAD FUNDS	\$0								
DHCD LOAN	\$0								
BONDS	\$0								
STATE GRANT	\$0								
COUNTY FUNDS	\$0								
RESERVES - CAP PROJ NEW CUST	\$70,000		\$70,000						
DIRECT CHRGS - SYS IMPR CHG	\$0								
DIRECT CHRGS - CAP CONTR CHG	\$0								
TOTAL FUNDS	\$70,000	\$0	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0

FUNDING ASSIGNMENT	Total Project %	Total Project \$
SERVICE AREA EXPANSION	0%	\$0
FACILITIES EXPANSION	100%	\$70,000
REHAB/REPLACEMENT	0%	\$0
TOTAL	100%	\$70,000